

Amendments to the Specification:

Please replace the paragraph beginning at page 13, line 37 and extending through page 14, line 9, with the following amended paragraph:

Capture and target antibodies to the proteinase enzymes MMP-1, MMP-8, MMP-9 and hNE were purchased from Sigma Chemicals, Inc. The anti-human MMP or hNE monoclonal antibodies (mAbs) were thiolated by dilution into phosphate buffered saline (PBS) (10mM Kpi, pH 7.4, 150 mM NaCl) to a final concentration of 2 mg/mL. A fresh stock of 1.2 mM Sulfo-SPDP (N-succinimidyl-3-(2-pyridyldithio) proprionate) purchased from Pierce, was added to the antibody solution to a final concentration of 0.12 mM. The reaction mixture was stirred at room temperature for 60 minutes. The thiolated mAbs were purified via a 5 mL desalting column run in PBS. Fractions containing protein were pooled and concentrated to 10 mg/mL via Centricon™ (Amicon, Inc.). Capture antibodies were dotted onto a strip of nitrocellulose membrane and air-dried.

Please replace the paragraph beginning at page 2, line 32 and extending through page 3, line 2, with the following amended paragraph:

Since the level of these enzymes is constantly in flux within a chronic wound, it is therapeutically important to specifically identify which proteinase, whether an enzyme or proenzyme, is at high levels. Many approaches have been suggested to control MMP activity. Levy (Levy, Daniel E., et al., "Matrix Metalloproteinase Inhibitors: A Structure-Activity Study", *J. Med. Chem.*, (1998), 199-223.), Wojtowicz-Praga (Wojtowicz-Praga, Slawomir M., et al., "Matrix Metalloproteinase Inhibitors", *Investigative New Drugs*, 15:1, (1997).), and Duivenvoorden (Duivenoorden, Wilhelmina C., et al., "Use of Tetracycline as an Inhibitor of Matrix Metalloproteinase...", *Invasion Metastasis*, (1997), 312-322.) have investigated the use of small molecules, while Odake (Odake, Shinjiro, et al., "Inhibition of matrix metalloproteinase by peptidyl hydroxamic acids...", *Biochemical and Biophysical Research Communications*, (1994), 1442-1446.) has investigated peptide-based inhibitors, and Su (Su, Jui-Lan, et al., "Monoclonal Antibodies against Human Collagenase and Stromel...", *Hybridoma*, 14:4, (1995), 383-390.) has used anti

MMP antibodies. None of these investigators have used rapid detection of catabolic enzymes and proenzymes to treat chronic wounds.